

CC: M. Venkatanarayana



**McLaren
Hart**

ENVIRONMENTAL ENGINEERING CORPORATION

Jim,

October 28, 1994

Mr. Jim Ross
Unit Chief, Site Cleanup Unit
California Regional Water Qu
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754-2156

*This is obviously a mistake -
my name is mentioned here
instead of Manjunika's.*

*Manjunath, V.
Planning.*

RE: SUMMARY OF OCTOBER 3, 1994 STATUS MEETING CONCERNING MOBIL PROJECTS

Dear Mr. Ross:

The following is a summary of the items discussed during the above referenced status meeting between you, Mr. Tom Walker of Mobil, and myself.

Bioremediation Activities

As discussed, Mobil is currently operating three bioremediation cells (2 are located at 10607 Norwalk Boulevard in Santa Fe Springs and 1 is located at the southeast corner of Pilchard Street and Ferry Street Terminal Island in the Port of Los Angeles). The soil in these cells are being tilled on a weekly basis using a SS250 (or equivalent) Soil Stabilizer. The stabilizer pulverizes and thoroughly mixes the soil to promote aeration, the mixing of nutrients, and biodegradation.

The procedure for receiving RWQCB approval for removal of lifts where bioremediation activities have been completed was discussed. Mobil and McLaren/Hart have since met and discussed this issue with Ms. Manju Venkatanarayana of your staff. She has been very helpful in assisting and advising us on this issue. She provided verbal approval for the removal of the first lift at the small Jalk Fee Biocell (written approval from the RWQCB is to follow in the near future). It is also our understanding that the RWQCB will wish to collect verification samples once the bioremediation of the second lift at each of the three biocells is completed. Mobil or McLaren/Hart will notify the RWQCB prior to the removal of these lifts.

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Prior to the removal of any of the soil lifts, the lift will be surveyed and staked to clearly mark the extent of each lift. A loader will be used to remove the upper lift (an 18-inch thick soil layer) of soil. A McLaren/Hart representative will be present during the soil removal activities to ensure that untreated soil from lower lifts is not inadvertently excavated. These are the same procedures and techniques used in the removal of lifts from the McGranahan Carlson bioremediation cells.

Disposition of Bioremediated Soil

Treated soil from the Jalk Fee bioremediation cell will be transported back to the point of origination for the soil. These locations include the excavation at Well 732-C located at 12720 Telegraph Road and the DeWenter Green Jordan property located north of Telegraph Road between Norwalk Boulevard and Geary Avenue.

Treated soil from the Pilchard Street biocell in the Port of Los Angeles will be turned over to the Port of Los Angeles (Port).

Abandonment of Groundwater Monitoring Wells

It is our understanding that the groundwater wells (one each at the Baker Humble I site and DeWenter Green Jordan site) can be abandoned once the groundwater sampling analytical results verifies the lack of site derived chemicals in the groundwater. McLaren/Hart is in the process of preparing a letter documenting this issue for submittal to the RWQCB. Upon the RWQCB's approval, abandonment activities will be implemented.

Additionally, Mobil understands that the 75 cubic yards (approximate) of soil located immediately around the groundwater monitor well at the Baker Humble I site will need to be removed. The petroleum impacted soil will be excavated after the well is abandoned. Mobil plans to transport this material to the Jalk Fee biocell for treatment.

PCE Contamination at the Jalk Fee Site

In summary, this issue involves the detection of tetrachloroethylene (PCE) in soil and a groundwater monitor well (MMW-5) along the southern border of the Jalk Fee site. Through a series of investigations, it appears that a potential source for the PCE in the soil

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and groundwater is the neighboring property which is occupied by Continental Heat Treating, Inc. (10643 Norwalk Boulevard, Santa Fe Springs, California).

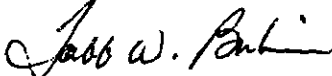
Since our discussion, Mr. George Baker of the Los Angeles Fire Department (LACFD), Mr. Lance Ralston of the LACFD Site Mitigation Unit, and Mr. Tom Hall of the Santa Fe Springs Fire Department have contacted Mr. Walker of Mobil concerning this issue.

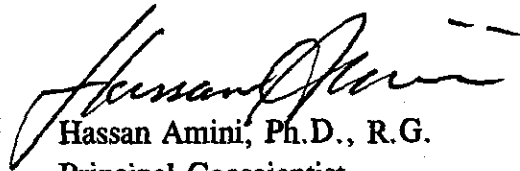
Mr. Baker indicated that the LACFD is starting the process of following up on the site mitigation issues at Continental Heat Treating by ordering a site assessment of the their property. Mr. Ralston indicated that this site inspection would likely happen during the week of October 10, 1994. Mr. Hall was following up on a request for an industrial waste permit inspection request of Continental Heat Treating requested by Mobil in letters dated September 30, 1993 and October 5, 1994. He indicated that the last inspection performed by his agency was several years ago and that Continental Heat Treating no longer discharges PCE. Mr. Walker informed him of the recent involvement of the LACFD.

Copies of investigation results related to this issue will be forwarded to their offices. Mr. Walker informed the above agencies, along with Mr. Miguel Monroy of the Department of Toxic Substance Control, that since it appears groundwater has been impacted it is our understanding that the RWQCB will assume the lead agency role regarding this issue.

Mobil and McLaren/Hart appreciate your assistance and guidance on these issues. If you have any questions or comments, please call me at (714) 752-3204.

Sincerely,


Tabb W. Bubier
Supervising Geoscientist


Hassan Amini, Ph.D., R.G.
Principal Geoscientist

cc: M. Venkatanarayana, RWQCB
T. Walker, Mobil

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1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$

It is well known that this function is the arctangent function, i.e. $f(x) = \arctan x$. The first part of the paper is devoted to the study of the properties of this function. In particular, it is shown that the function is odd, i.e. $f(-x) = -f(x)$, and that it is bounded on any finite interval. The second part of the paper is devoted to the study of the asymptotic properties of the function. It is shown that the function approaches $\pm \frac{\pi}{2}$ as $x \rightarrow \pm \infty$.

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